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KOPPEL, PATRICK & HEYBL 555 ST. CHARLES DRIVE SUITE 107 THOUSAND OAKS, CA 91360			LERNER, MARTIN	
			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/040,653	Applicant(s) CASCONI ET AL.	
	Examiner Martin Lerner	Art Unit 2626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 May 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 to 14 and 16 to 50 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 6 to 8 is/are allowed.
- 6) ☒ Claim(s) 1 to 5, 9 to 14, and 16 to 50 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 to 4, 9 to 14, 16 to 18, 21 to 26, and 28 to 50 are rejected under 35 U.S.C. 102(b) as being anticipated by *Severson et al.* ('431).

Regarding independent claim 1, *Severson et al.* ('431) discloses a method of synthesizing sound, comprising:

“generating a plurality of different kinds of simpler sound events in a sequence of simpler sound events, with repetitive occurrences of at least some of said kinds” – a 32-second segment of a continuous sound record is broken into a number (say 4) of equal segments (column 4, line 64 to column 5, line 12); an example of a logically sequenced sound (LSS) involves a random sequence of cows mooing, stomping and eating sounds, a dog-barking record, kids yelling, and sound of a trough filling with water (column 7, line 55 to column 8, line 16); each of these sounds is one of “a plurality of different kinds of simpler sound events in a sequence of simpler sound events”;

“and with random time delays after a simpler sound event is generated until the next simpler sound event is generated” – a Random Sequenced Sound (RSS) might

Art Unit: 2626

choose to have the next segment to be played from a Uniform distribution, with an equal number of 1's, 2's, 3', and 4's in a random sequence; or RSS might choose the segments from a Weighted Uniform distribution that might play as {1, 4, 1, 1, 3, 1, 1, 2, 2, 1, 1, 1 . . . etc.} (column 5, lines 13 to 30); a random sequence of 1's, 2's, 3's, and 4's produces "random time delays after a simpler sound event is generated until the next simpler sound event is generated" because the time between occurrences of any two types of the sounds, i.e. 2's and 4's, is random; if 1's are viewed a background sound, then there are random time delays between one simpler sound event, e.g. sound event 4, and a next simpler sound event, e.g. sound event 3 or sound event 2; thus, for two (or more) Random Sound Sequence (RSS) Machines, a "Stormy Night" sound effect, with a distant church bell, thunder, squeaking gate, barking dog, etc., contains a number of simpler sound events, i.e. the church bell, the barking dog, the thunder, having random time delays between them; then a "Haunted" sound effect, with a moaning ghost, a crazy laugh, a howling wolf, a flapping bat, is combined to create a "Haunted House on a Stormy Night" sound effect, containing a number of simpler sound events with random and unpredictable time delays between each sound within a sound effect (column 7, lines 37 to 54);

"combining said successive simpler sound events into said complex sound" – Random Sequenced Sound is generated by selecting, playing, and repeating sound segments (column 2, lines 59 to 67; column 7, lines 37 to 54).

Regarding independent claim 35, *Severson et al.* ('431) discloses a method of synthesizing sound, comprising:

“generating a sequence of simpler sound events with random time delays after a simpler sound event is generated until a next simpler sound event is generated” – a Random Sequenced Sound (RSS) might choose to have the next segment to be played from a Uniform distribution, with an equal number of 1's, 2's, 3', and 4's in a random sequence; or RSS might choose the segments from a Weighted Uniform distribution that might play as {1, 4, 1, 1, 3, 1, 1, 2, 2, 1, 1, 1 . . . etc.} (column 5, lines 13 to 30); a random sequence of 1's, 2's, 3's, and 4's produces “random time delays after a simpler sound event is generated until the next simpler sound event is generated” because the time between occurrences of any two types of the sounds, i.e. 2's and 4's, is random; if 1's are viewed a background sound, then there are random time delays between one simpler sound event, e.g. sound event 4, and a next simpler sound event, e.g. sound event 3 or sound event 2; thus, for two (or more) Random Sound Sequence (RSS) Machines, a “Stormy Night” sound effect, with a distant church bell, thunder, squeaking gate, barking dog, etc., contains a number of simpler sound events, i.e. the church bell, the barking dog, the thunder, having random time delays between them; then a “Haunted” sound effect, with a moaning ghost, a crazy laugh, a howling wolf, a flapping bat, is combined to create a “Haunted House on a Stormy Night” sound effect, containing a number of simpler sound events with random and unpredictable time delays between each sound within a sound effect (column 7, lines 37 to 54);

“controlling said simpler sound events in accordance with one or more sound event parameters” – memory 403 contains sound records and programming for performing functions of sound record selection based on an overall “story line” that defines the theme to be played out; a software language allows for definitions of instructions for the Random Sequenced Sound (RSS) programs (column 12, lines 54 to 67); a line of program code may be “002 PlayRecord (Random3, 12)” where “Random3” indicates the kind of probability function that is used on “Group 12” recordings (column 13, lines 8 to 13);

“selecting the values of said sound event parameters in accordance with respective input parameters having random distributions” – each distribution would have a set of arguments to define its characteristics; for instance, a Gaussian distribution would be defined by its mean and standard deviation; kinds of probability functions are 1. Gaussian, 2. chi-squared, 3. uniform etc. (column 13, line 8 to 21);

“combining said simpler sound events into said complex sound” – Random Sequenced Sound is generated by selecting, playing, and repeating sound segments (column 2, lines 59 to 67).

Regarding independent claim 49, *Severson et al.* ('431) discloses a method of synthesizing sound, comprising:

“generating a plurality of different kinds of simpler sound events with respective delays between the trigger times of successive simpler sound events in said sequence, and with repetitive occurrences of each kind” – a 32-second segment of a continuous

Art Unit: 2626

sound record is broken into a number (say 4) of equal segments (column 4, line 64 to column 5, line 12); Random Signal Generator 303 and Clock 311 provide signals to Digital Sound Generator 306 to control when random sound effects are played (column 11, lines 20 to column 12, line 17); signals from Random Signal Generator 303 and Clock 311 act as “trigger times”;

“establishing respective time delays between the trigger times of at least some of said kinds of simpler sound events independent of the durations of said simpler sound events, and independent of the kinds of simpler sound events embodied by said at least some simpler sound events” – a Random Sequenced Sound (RSS) might choose to have the next segment to be played from a Uniform distribution, with an equal number of 1's, 2's, 3', and 4's in a random sequence; or RSS might choose the segments from a Weighted Uniform distribution that might play as {1, 4, 1, 1, 3, 1, 1, 2, 2, 1, 1, 1 . . . etc.} (column 5, lines 13 to 30); implicitly, a random sound effect is “independent of their respective durations” because the overall duration of sound effect is fixed in a library of sound effects, but a time distribution for insertion is random (column 7, line 55 to column 8, line 5); although some examples involve making a likelihood of one sound depend upon another sound (column 8, lines 5 to 21), sounds for a uniform distribution are produced randomly (column 5, lines 13 to 30);

“combining said simpler sound events into said complex sound” – Random Sequenced Sound is generated by selecting, playing, and repeating sound segments (column 2, lines 59 to 67).

Regarding independent claim 50, *Severson et al.* ('431) discloses a method of synthesizing sound, comprising:

“generating a succession of simpler sound events with random time delays, after a simpler sound event is generated until the next simpler sound event is generated, that are independent of the respective durations of said sound events” – a Random Sequenced Sound (RSS) might choose to have the next segment to be played from a Uniform distribution, with an equal number of 1's, 2's, 3', and 4's in a random sequence; or RSS might choose the segments from a Weighted Uniform distribution that might play as {1, 4, 1, 1, 3, 1, 1, 2, 2, 1, 1, 1 . . . etc.} (column 5, lines 13 to 30); a random sequence of 1's, 2's, 3's, and 4's produces “random time delays after a simpler sound event is generated until the next simpler sound event is generated” because the time between occurrences of any two types of the sounds, i.e. 2's and 4's, is random; if 1's are viewed a background sound, then there are random time delays between one simpler sound event, e.g. sound event 4, and a next simpler sound event, e.g. sound event 3 or sound event 2; thus, for two (or more) Random Sound Sequence (RSS) Machines, a “Stormy Night” sound effect, with a distant church bell, thunder, squeaking gate, barking dog, etc., contains a number of simpler sound events, i.e. the church bell, the barking dog, the thunder, having random time delays between them; then a “Haunted” sound effect, with a moaning ghost, a crazy laugh, a howling wolf, a flapping bat, is combined to create a “Haunted House on a Stormy Night” sound effect, containing a number of simpler sound events with random and unpredictable time delays between each sound within a sound effect (column 7, lines 37 to 54);

“controlling said simpler sound events in accordance with one or more sound event parameters” – memory 403 contains sound records and programming for performing functions of sound record selection based on an overall “story line” that defines the theme to be played out; a software language allows for definitions of instructions for the Random Sequenced Sound (RSS) programs (column 12, lines 54 to 67); a line of program code may be “002 PlayRecord (Random3, 12)” where “Random3” indicates the kind of probability function that is used on “Group 12” recordings (column 13, lines 8 to 13);

“selecting the values of said sound event parameters in accordance with respective input parameters having random distributions” – each distribution would have a set of arguments to define its characteristics; for instance, a Gaussian distribution would be defined by its mean and standard deviation; kinds of probability functions are 1. Gaussian, 2. chi-squared, 3. uniform etc. (column 13, line 8 to 21).

Regarding claims 2 and 36, *Severson et al.* ('431) discloses a uniform distribution having on average an equal number of 1's, 2's, 3's, and 4's in a long sequence (column 5, lines 12 to 21); if the number and kinds of segments are uniform over a long sequence, then the average rate of each segment is constant.

Regarding claims 3 and 37, *Severson et al.* ('431) discloses that to further increase the depth and realism of continuous sound animation it is possible to have one or more aspects of the sound generation and sequencing be responsive to various events or inputs; examples of events to which responsiveness might be appropriate are

Art Unit: 2626

the passage of time, the coincidence with some other sound effect, or a control signal received from another RSS/LSS sound unit; the idea is that some aspect of the sound generation changes (such as the frequency of use of a sound segment) (column 8, line 62 to column 9, line 16).

Regarding claims 4 and 38, *Severson et al.* ('431) discloses both uniform distributions (column 5, lines 12 to 21) and event-responsive RSS or LSS (column 8, line 62 to column 9, line 16).

Regarding claim 9, *Severson et al.* ('431) discloses segments can be played back as: {1, 2, 3, 4, 1, 2, 3, 4 . . . , etc.} (column 4, line 64 to column 5, line 12); a fixed, ordered sequence 1, 2, 3, 4 provides "random time delays are predetermined for at least some of said kinds of simpler sound events."

Regarding claims 10, 24, 28, and 44 to 46, *Severson et al.* ('431) discloses that to further increase the depth and realism of continuous sound animation it is possible to have one or more aspects of the sound generation and sequencing be responsive to various events or inputs; examples of events to which responsiveness might be appropriate are the passage of time, the coincidence with some other sound effect, or a control signal received from another RSS/LSS sound unit; the idea is that some aspect of the sound generation changes (such as the frequency of use of a sound segment) (column 8, line 62 to column 9, line 16).

Regarding claim 11, *Severson et al.* ('431) discloses a uniform distribution having an equal number of 1's, 2's, 3's and 4's played as {1, 3, 2, 4, 2, 2, 2, 4, 1, 3, 4 . . . etc.}

(column 5, lines 12 to 21); time delays between each kind of segment are according to a probability distribution being selected as a uniform distribution beforehand.

Regarding claims 12 and 30, *Severson et al.* ('431) discloses the functions of random generation may be programmed by a user (column 12, lines 54 to 67).

Regarding claims 13, 25, and 26, *Severson et al.* ('431) discloses line code for a program defines parameters "(Random3, 12)" or "Random 1(m,s)" for a kind of probability function, mean, and standard deviation (column 13, lines 6 to 21).

Regarding claims 14 and 39, *Severson et al.* ('431) discloses music rhythm synthesis, where rhythm notes may have a random aspect to the specific note (such as volume, pitch or timbre) (column 9, lines 52 to 59).

Regarding claims 16 to 18, 21 to 23, and 40 to 43, *Severson et al.* ('431) discloses line code for a program defines parameters "(Random3, 12)" or "Random 1(m,s)" for a kind of probability function, mean, and standard deviation; each distribution would have a set of arguments to define its characteristics; for instance, a Gaussian distribution would be defined by its mean and standard deviation; kinds of probability functions are "1. Gaussian, 2. chi-squared, 3. uniform etc." (column 13, lines 6 to 21).

Regarding claim 29, *Severson et al.* ('431) discloses producing sound effects for games (column 3, line 44; column 8, line 62 to column 9, line 16).

Regarding claim 31 and 32, *Severson et al.* ('431) discloses line code for a program defines parameters "(Random3, 12)" or "Random 1(m,s)" for a kind of probability function, mean, and standard deviation; mean "m" or standard deviation "s" may be specified as preset values or they may be computed or selected based on the

Art Unit: 2626

present state of the program (column 13, lines 6 to 21); a mean of a probability distribution is a "predetermined average value"; if a mean is computed based on the present state of the program, then the mean is "varied during the course of generating a complex sound event."

Regarding claim 33, *Severson et al.* ('431) discloses sound events are stored in Sound Record Memory 307 (column 11, lines 52 to 65: Figure 3); synthesizing sound from a digital memory is equivalent to "a digital wavetable synthesizer."

Regarding claim 34, *Severson et al.* ('431) discloses microprocessor 401 is connected through internal D/A 405 and A/D 406 (column 12, lines 22 to 36: Figure 4); A/D converter 406 allows external analog signals to be applied directly to microprocessor 401 for analog control of its behavior (column 12, lines 51 to 53); synthesizing sounds under control of an analog signal is equivalent to "an analog sound synthesizer".

Regarding claims 47 and 48, similar considerations apply as independent claims 49 and 50, as noted above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over *Severson et al.* ('431) in view of *Borza et al.*

Severson et al. ('431) suggests Random Sequenced Sound (RSS) may be generated as a timing signal from a Random Signal Generator 303, where a random signal is based on noise generated in electrical circuitry. (Column 12, Lines 7 to 17) It is known that noise generated in electrical circuitry is white noise. However, *Severson et al.* ('431) omits establishing a random time distribution in accordance with white noise crossing a predetermined threshold. *Borza et al.* teaches a random number generator, where noise values above a predetermined value are defined as "1" bits while those values below a predetermined value are defined as "0" bits. White noise is used to produce "1" and "0" bit values. (Column 6, Lines 20 to 31; Column 7, Lines 41 to 67: Figures 4a to 4e) It is suggested that a random number generator based on white noise compared to a predetermined value has an advantage of providing a cost effective means of generating a random number. (Column 2, Lines 39 to 42). It would have been obvious to one having ordinary skill in the art to provide a random noise generator based upon comparing white noise to predetermined values as taught by *Borza et al.* in the method of synthesizing sound of *Severson et al.* ('431) for the purpose of cost effectively generating random numbers.

Claims 19, 20, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Severson et al.* ('431) in view of *Severson et al.* ('318).

Severson et al. ('431) discloses selecting probability distributions as program code for "Random 1(m,s)", defining "m" as a desired mean and "s" as a desired standard deviation. (Column 13, Lines 14 to 21) However, *Severson et al.* ('431) omits user selectable minimum and maximum values for parameters, where a random parameter value is selected if a parameter value does not fall within maximum and minimum values. *Severson et al.* ('318) teaches a detect counter for resetting when a predetermined minimum or maximum is reached (column 13, line 54 to column 14, line 2), and where a random mode is triggered when a count is less than a predetermined minimum value (column 15, lines 46 to column 16, line 6). It is suggested that providing a voice selection mode as random or triggered varies cow sounds between quiet and contented or progressively more agitated as motion is detected. (Column 3, Lines 18 to 30) It would have been obvious to one having ordinary skill in the art to provide minimum and maximum parameter values to set a random parameter as taught by *Severson et al.* ('318) in the method to synthesize sound of *Severson et al.* ('431) for the purpose of varying sounds in response to motion.

Allowable Subject Matter

Claims 6 to 8 are allowed.

Response to Arguments

Applicants' arguments filed 01 May 2006 have been fully considered but they are not persuasive.

Applicants argue that *Severson et al.* ('431) fails to anticipate claims 1 to 4, 9 to 14, 16 to 18, 21 to 26, and 28 to 50 under 35 U.S.C. §102(b) because the reference only discloses random time delays between sound segments of the same kind, whereas Applicants' method provides for random time delays between one simpler sound event and a next simpler sound event, regardless of whether the next sound event is the same as the first one or different.

However, there is ample evidence that *Severson et al.* ('431) discloses random time delays between different kinds of sound events. *Severson et al.* ('431) discloses a Random Sequenced Sound (RSS) might choose to have the next segment to be played from a Uniform distribution, with an equal number of 1's, 2's, 3's, and 4's in a random sequence, or RSS might choose the segments from a Weighted Uniform distribution that might play as {1, 4, 1, 1, 3, 1, 1, 2, 2, 1, 1, 1 . . . etc.}. (Column 5, Lines 13 to 30) A random sequence of 1's, 2's, 3's, and 4's produces "random time delays after a simpler sound event is generated until the next simpler sound event is generated" because the time between occurrences of any two types of the sounds, i.e. 2's and 4's, is random. If 1's are viewed a background sound, then there are random time delays between one simpler sound event, e.g. sound event 4, and a next simpler sound event, e.g. sound event 3 or sound event 2. Thus, for two (or more) Random Sound Sequence (RSS) Machines, a "Stormy Night" sound effect, with a distant church bell, thunder, squeaking gate, barking dog, etc., contains a number of simpler sound events, i.e. the church bell, the barking dog, the thunder, having random time delays between them. Then a "Haunted" sound effect, with a moaning ghost, a crazy laugh, a howling wolf, a flapping

Art Unit: 2626

bat, is combined to create a "Haunted House on a Stormy Night" sound effect, containing a number of simpler sound events with random and unpredictable time delays between each sound within a sound effect. (Column 7, Lines 37 to 54)

Therefore, the rejections of claims 1 to 4, 9 to 14, 16 to 18, 21 to 26, and 28 to 50 under 35 U.S.C. §102(b) as being anticipated by *Severson et al.* ('431), of claim 5 under 35 U.S.C. §103(a) as being unpatentable over *Severson et al.* ('431) in view of *Borza et al.*, and of claims 19, 20, and 27 under 35 U.S.C. 103(a) as being unpatentable over *Severson et al.* ('431) in view of *Severson et al.* ('318), are proper.

Conclusion

THIS ACTION IS MADE FINAL. Applicants are reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Martin Lerner whose telephone number is (571) 272-

Art Unit: 2626

7608. The examiner can normally be reached on 8:30 AM to 6:00 PM Monday to Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Hudspeth can be reached on (571) 272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ML
5/17/06


Martin Lerner
Examiner
Group Art Unit 2626